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KEEPING AMERICA'S NAVY #1 IN THE WORLD

SUNSET SUPPLY BASE (SSB)

A COTS Obsolescence & Long-Term Supportability Solution
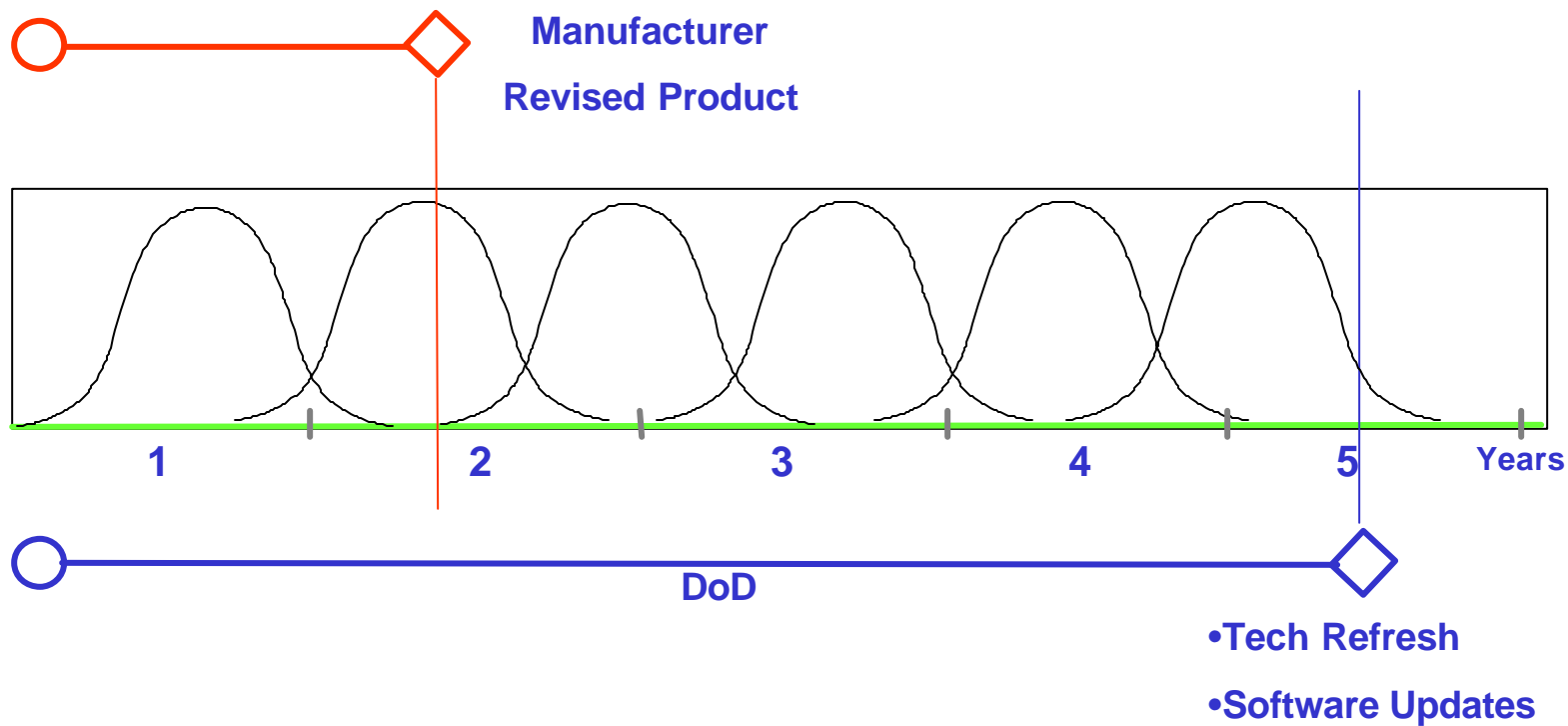
SSB Mission

Provide a Tool/Path to Mitigate the Risk of COTS Obsolescence

COTS/NDI Obsolescence

- **Problem** for DoD Systems
  - Acquisition Reform Looks to COTS/NDI Benefits but NOT THE RISKS
    - Component Life Cycle Industry vs. DoD
    - Minor Changes that Affect Form, Fit, Function
  - Systems in Design Can't Keep Up
    - Often DoD systems have obsolescence built-in

- **Solution** to DMSMS
  - Apply Sunset Supply Base Concept
    - Develop a Win-Win-Win Relationship Among OEMs, Small Business, and Government Programs
  - SSB Implementation: SSDS Program

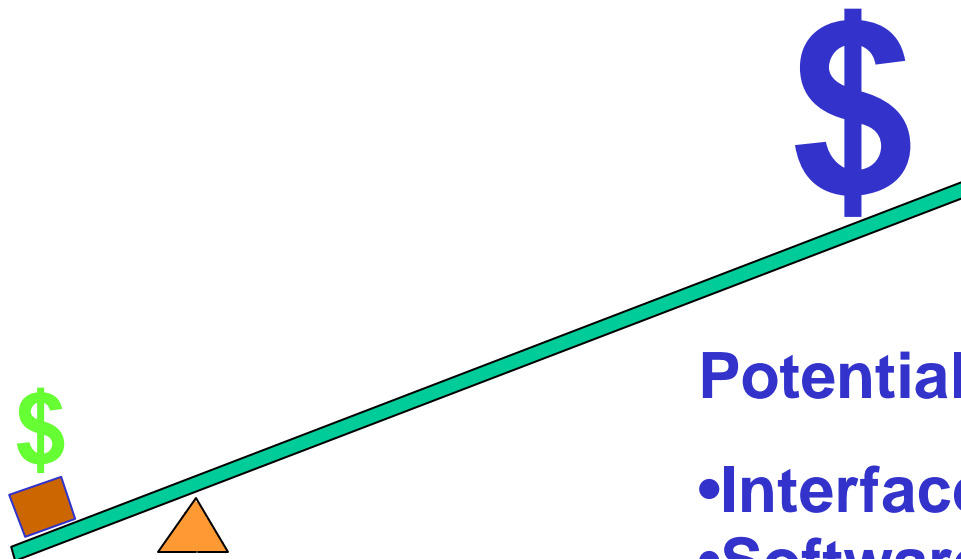# Component Life Cycle
Industry vs. DoD

Manufacturer

Revised Product

DoD

1   **2**   **3**   **4**   **5**   **Years**

•**Tech Refresh**

•**Software Updates**

• **COTS Management will help match the COTS Market Place with the Fleets Inertia (driven by size, availability of dollars and ships, etc.)**

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Minor Changes

Minor Product Changes

$

Potential Impact
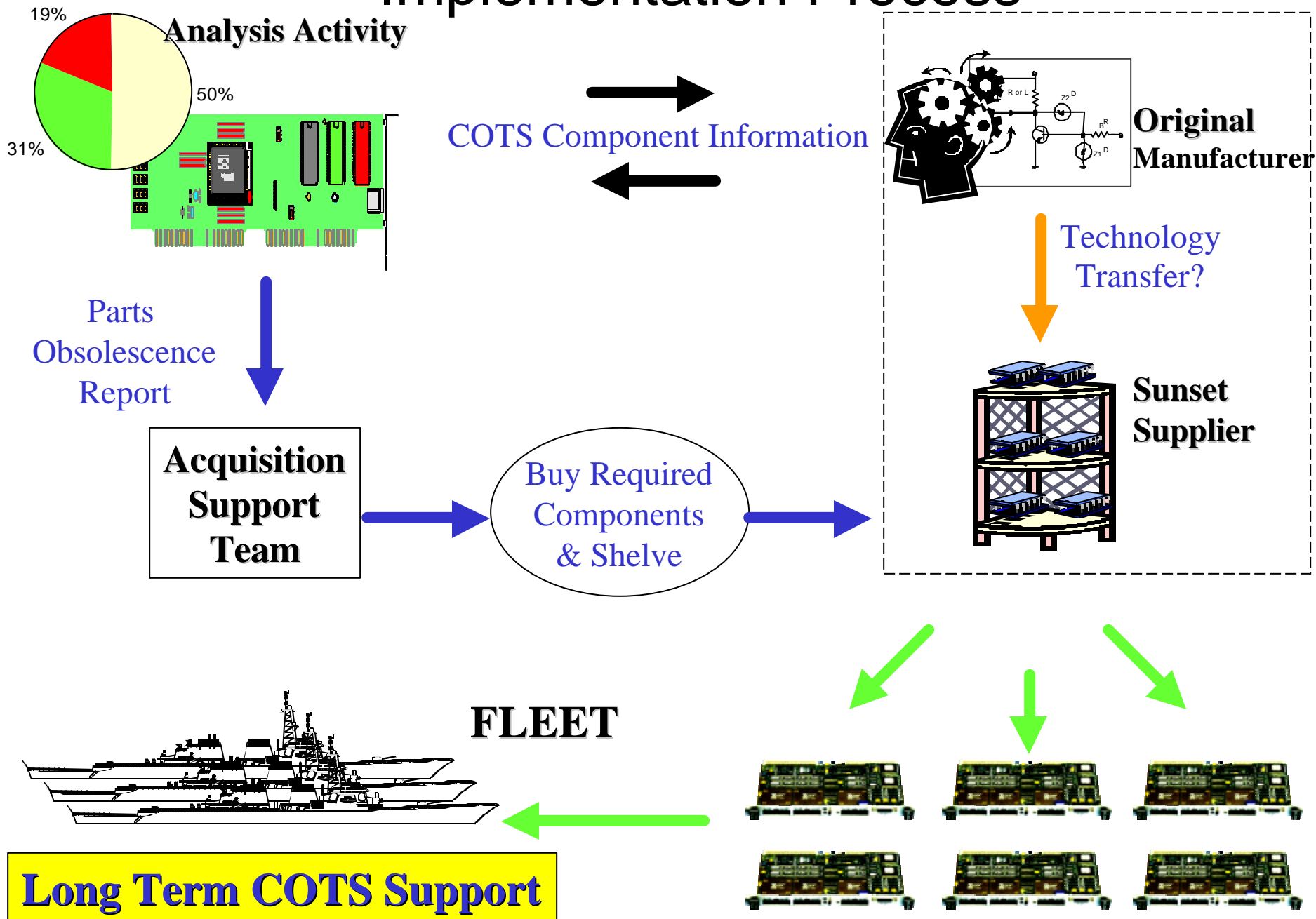
- **Interfaces**
- **Software**
- **System Integration**

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Sunset Supply Base

The Sunset Supply Base (SSB) concept, uses a Systems Engineering approach to extend COTS supportability/availability through development of a second source supplier to continue manufacturing assemblies made obsolete by the Original Equipment Manufacturers (OEM)
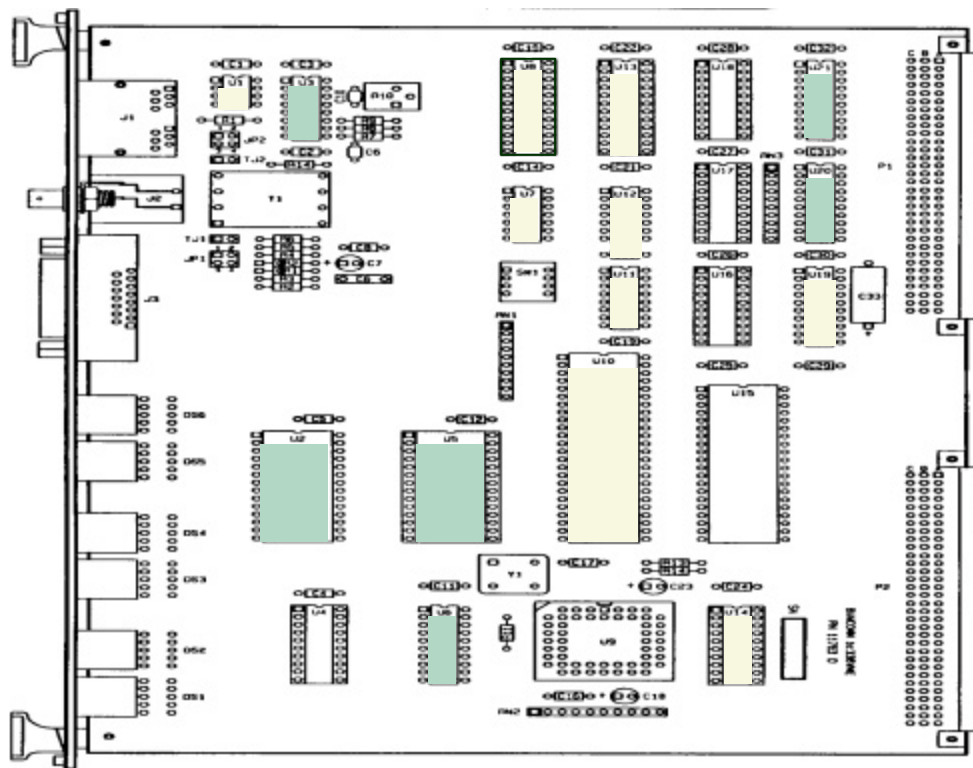
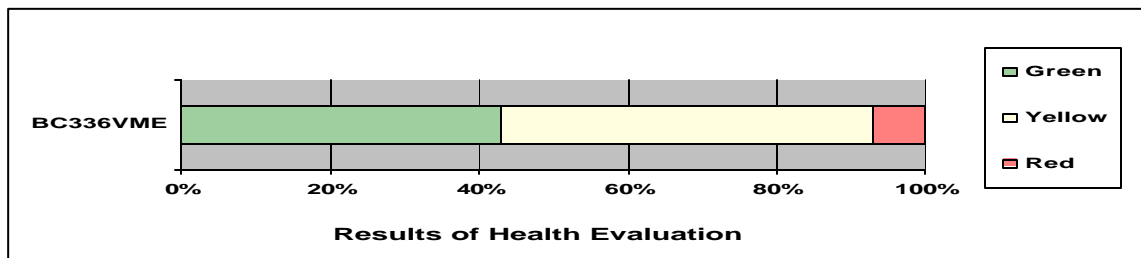SSB System Functions Like Supportability Insurance

Implementation Process

Analysis Activity

19%

50%

31%

COTS Component Information

Original Manufacturer

Technology Transfer?

Parts Obsolescence Report

Acquisition Support Team

Buy Required Components & Shelve

Sunset Supplier

FLEET

Long Term COTS Support

SSB Analysis

ASSEMBLY, bc336VME
TIME CODE PROCESSOR

BC336VME

Green
Yellow
Red

0%   20%   40%   60%   80%   100%

Results of Health Evaluation

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"WIIFM"

COTS Mfg (OEM)

- **Enhanced product supportability**

- **No technical or business threat, protects proprietary design**

- **Royalty or % profit on each board sold by SSB**

- **Established long term relationship w/DOD without the supportability ongoing efforts**

Sunset Supply Base (SSB)

- **New product line**

- **New customers**

- **DMSMS/obsolescence technical partnering w/third party assessment**

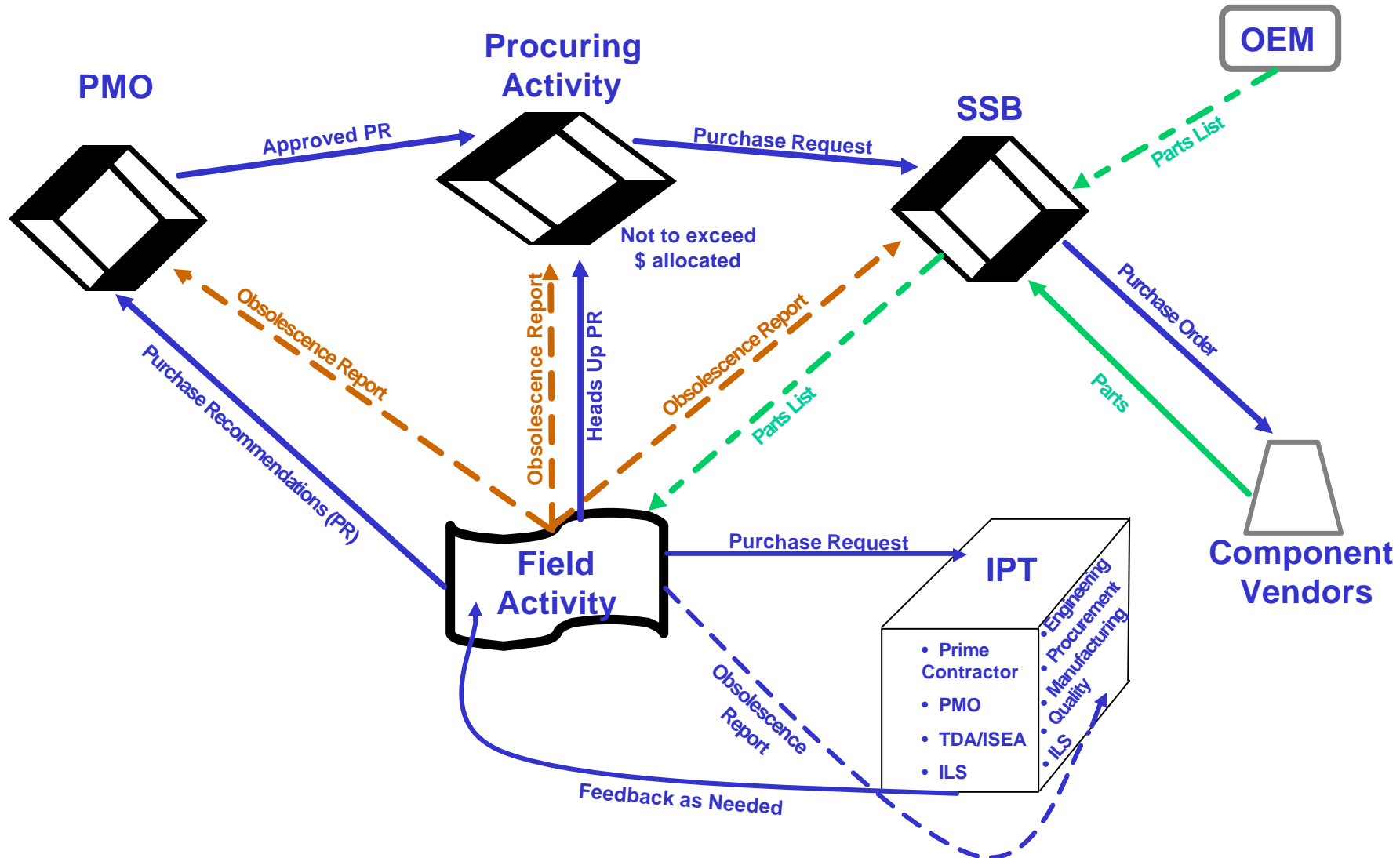- **Long term relationship w/customer and business planning**

Program Management

- **Program supportability at program option**

- **Ability to match COTS update cycle with programs technical roadmap/refresh programs**

- **Extend COTS reparability at program option**

- **Insight to the potential obsolescence through predictive tools**

- **Piece parts management/support mitigating DMSMS issues at the Assembly Level**

Third Party Assessment Field Activity

- **Long term program support**

- **Defines a process that provides incoming data for analysis (DMSMS)**

- **Management of SSB provides program equity for many programs concurrently**

- **Centralized COTS supply base management for program and Fleet support**

- **Sustained product integrity**

How SSB Supports Programs

SSB APPLIED

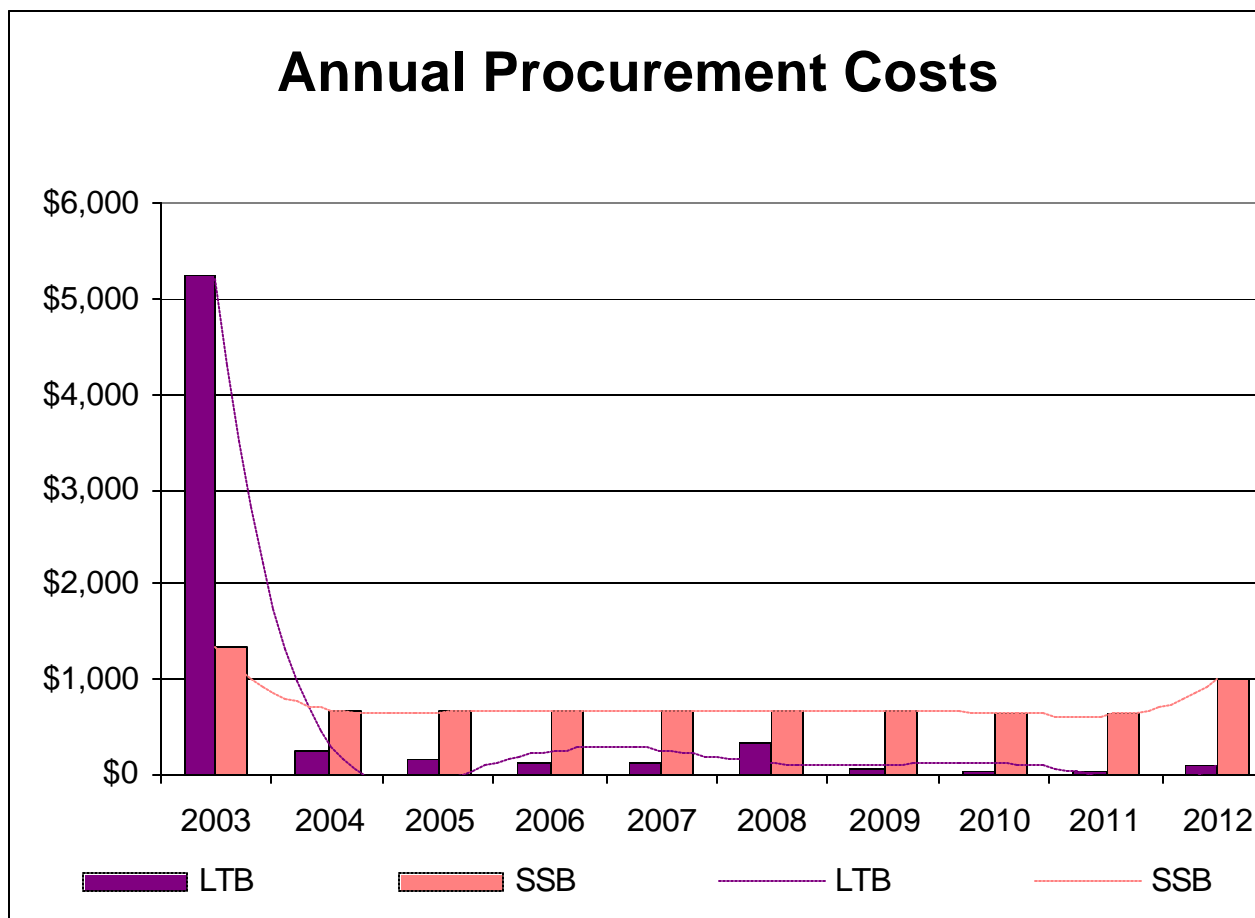## EXAMPLE: SHIP SELF DEFENSE SYSTEM (SSDS)

Sunset Supply Base

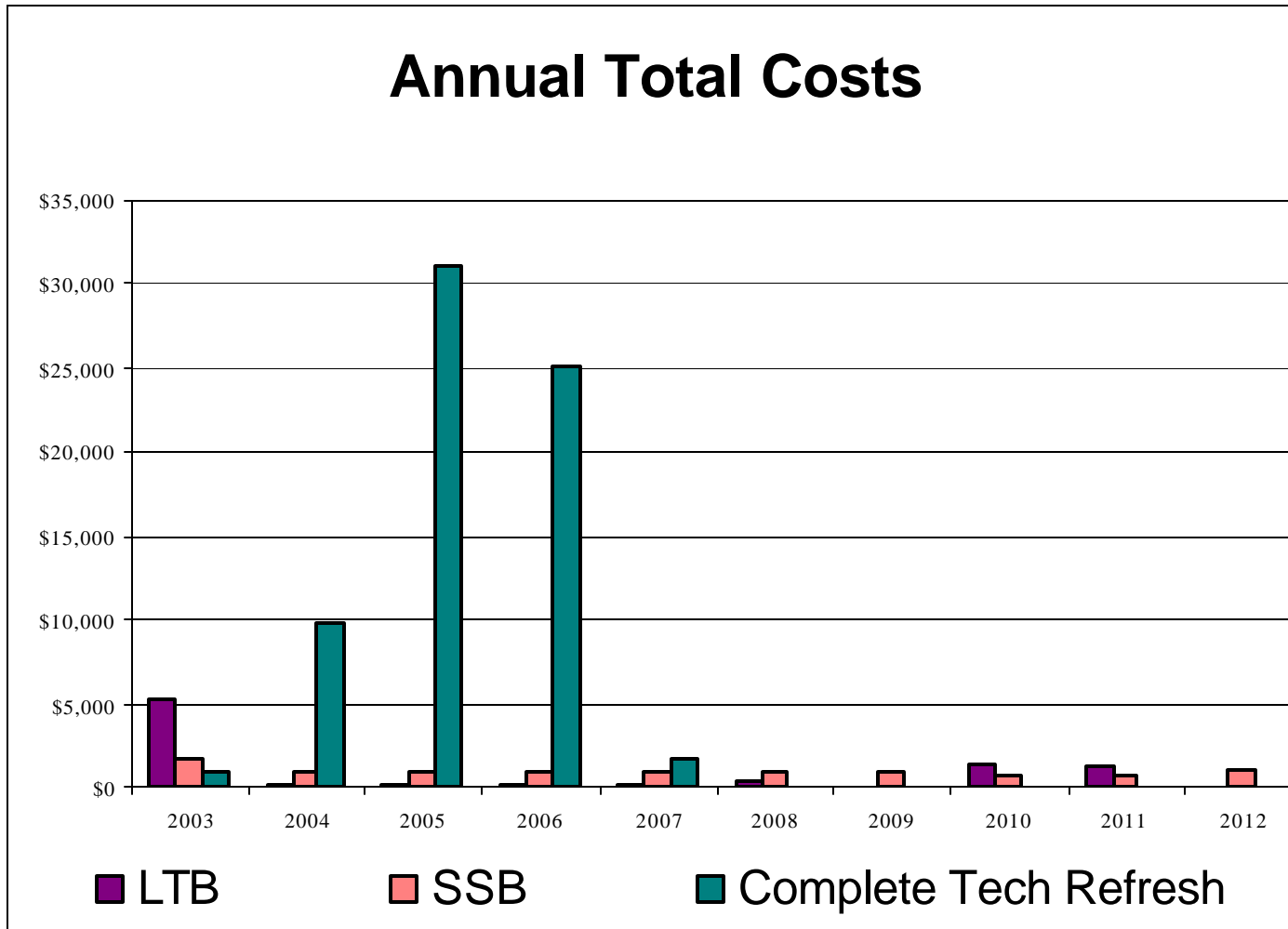| ITEM	OBSOLESCENCE FACTOR
PWB Power Supply Microwave/RF VME Single Board Computer	PROPRIETARY
HARDWARE	NONE
PASSIVE COMP. Environmental Impacts	MINIMAL
ACTIVE COMP. IC's, Hybrids, ASIC, etc.	MAJOR

PREDICTIVE DMSMS

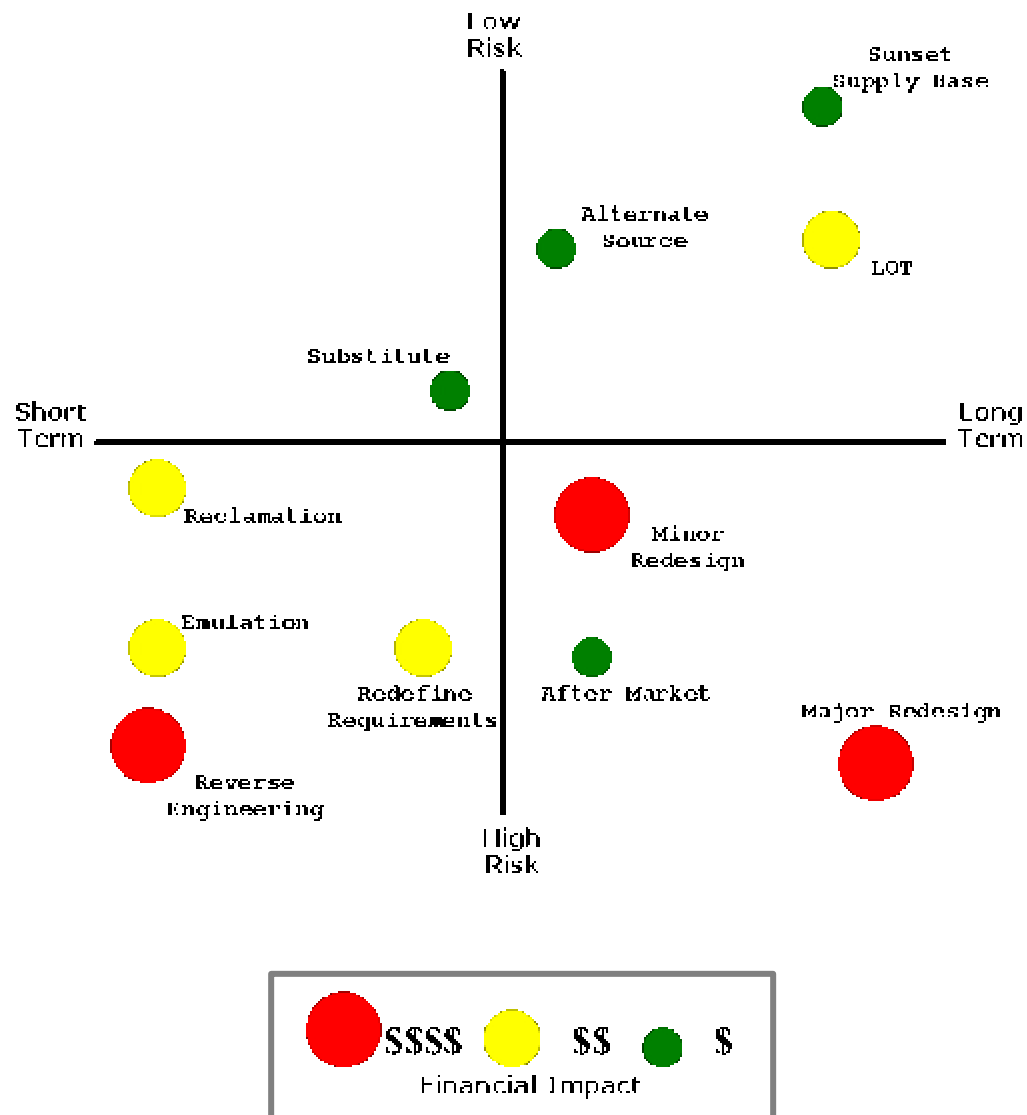# Funding Profiles Comparison (LTB & SSB)

Annual Procurement Costs

Funding Profiles Comparison (LTB, SSB, & Redesign)

Annual Total Costs

SSB Positioning & Differentiation

Potential Impact From SSDS Direct Ongoing Support

• Other programs using the same COTS configurations are being identified then contacted regarding participation, these include:

- ✓ CEC
- ✓ Q-70
- ✓ AN/SQQ-89
- ✓ AN/SPS-48E
- ✓ CIFF-SD
- ✓ Auxiliary Data Processor (ADP)

- ✓ AN/SYS2
- ✓ SPS-48
- ✓ Wrap-Around Simulator Processor (WASP)
- ✓ Digital Radar Land Mass Simulator (DRLMS)
- ✓ Mk-162

SSB Summary

- Less Configuration Variations
- Life Cycle Cost Reduction
- Minimized Perturbations in Support Infrastructure (manuals, system test & trouble shoot, etc)
- Technology Insertion Planned at PMO's Discretion
- Allows Continued Production of COTS Item
- Stabilize Business & Management Planning of COTS
- New Supportability Options for Program Managers
- Enhances Fleet Supportability & Availability